

INFORMATION TO BE POSTED AT <http://www.onr.navy.mil/expedlogisfnc/>

GENERAL INFORMATION: The objective of this effort is to proceed with a deliberate investment in improving the technology base and then applying these technologies to emerging shipboard cargo handling systems. Proposed systems may target Combat Logistics Force or Combatant type ships, or both. The objective of this announcement is the development of technologies to insert into emerging cargo handling systems rather than the delivery of a complete end-to-end system. As such, technologies are to be suitable for integration into other systems; open system architecture and non-proprietary protocols are to be used to the greatest extent practical. Additional information on shortfalls of existing technologies and systems, on target requirements and on cargo interfaces and a partial listing of representative or notional technologies that may be anticipated can be found at <http://www.onr.navy.mil/expedlogisfnc/>. Selected projects are targeted for funding starting in the first quarter of FY02.

TECHNOLOGY INTEREST AREAS: Technologies of interest are: (1) Load Handling and Movement Equipment; (2) Cargo Stowage Systems; and (3) Systems to improve Stowage Density or to provide Selective Offload.

Load Handling and Movement Equipment. The intent of this effort is to develop and demonstrate technologies that can be easily integrated into emerging systems to handle and move all standard Naval unit package loads with little or no operator intervention required. All technologies should support reduction in weight and space requirements, support reduction in workload, require minimum operator skill and training, and use shipboard power supplies.

Cargo Stowage. The intent of this effort is to develop and demonstrate technologies that can be easily integrated into emerging systems to stow all standard Naval unit package loads in a storeroom or magazine to survive storm sea conditions. All technologies should support reductions in space and weight requirements, support reduction in workload and require the minimum of operator skill and training to operate.

Systems to improve Stowage Density or to provide Selective Offload. The intent of this effort is to develop technologies that can: (a) be used to support a shipboard automatic warehouse system, (b) affordably reduce the weight and intrusiveness of stowage structures, packaging and cargo handling, and movement equipment to reduce the weight impact on the ship, (c) reduce the power consumption of handling equipment, (d) provide a higher stowage density in storerooms and magazines, and (e) be used to provide 100% selective offload of storeroom and ordnance cargo and enable future Naval Concepts.

PERIOD OF PERFORMANCE AND ANTICIPATED AWARD AMOUNTS. Proposed work shall be structured to include a base performance period of nine (9) months or less beginning in FY02 and an option performance period of twelve (12) months. Anticipated total funding for each award is \$300,000.00 for the base period and \$4,000,000.00 for the option period.

INSTRUCTIONS FOR PREPARING WHITE PAPERS. Offerors can address one or more of the three Technology Interest Areas; however, each Technology Interest Area shall be submitted independently. The total length of each white paper should not exceed twenty (20) typed pages. Any additional information over the page count limitation will be discarded. The page limitation for white papers includes the technical description, managerial description, and a cost estimate. The cover page is not included in the page count. Some fold out material on larger paper size may be used if required for sketches,

illustrations, or graphics with a typeface of 12-point font. White papers shall include a cover page, technical description, managerial description, and a cost estimate. A page is defined as 8 1/2 X 11-inch paper, single sided, double-spaced, with one-inch margins, and a typeface of 12-point font.

Cover page: The cover page shall be clearly labeled "White Paper" and contain the BAA number and title; the title of the proposed effort; the name(s) of the proposing organization(s); and the names of the administrative and technical points of contact, along with their telephone numbers, FAX numbers, and electronic mail addresses.

Technical Description: The technical description is limited to twelve (12) pages. This section shall consist of a clear discussion of the concept and associated technologies being proposed, development objectives of the proposed effort, major technical issues to be resolved to accomplish objectives and approaches to resolve these issues, and fallback positions if the issues cannot be fully resolved.

Managerial Description: The managerial description is limited to seven (7) pages, including resumes. This section shall include partnering arrangements, if any, lists of key personnel and their primary relevant qualifications, specific prior experience of the Offeror in the technology area addressed, facilities, and a plan of action and milestones. Offerors shall also identify proposed processes for program control, risk mitigation, schedule adherence, documentation control, etc.

Cost Estimate: The cost estimate is limited to one (1) page. This page shall consist of a rough order of magnitude (cost estimate) broken out by base (9 months) and Option (12 months).

Other Information: Offerors should describe their preferred contract type (i.e. Cost-Plus-Fixed Fee, Firm Fixed Price, Cost Sharing). Due to the small size of the program office, no Government Furnished Equipment/Government Furnished Information should be expected. Any required equipment and information shall be the offeror's responsibility to obtain, although the program office may provide coordination/assistance. Offerors proposing technology approaches determined through the white paper process as being of "particular value" to this effort will be encouraged to submit a detailed technical and cost proposal. Full proposal submittees may also be asked to make an oral presentation of their proposal to the ExLog Program Office in the Washington D.C. area at a date and time to be provided. The awards will be based on the results of the full technical and cost proposals and any oral presentations. Offerors submitting full proposals will be notified of the award selections.

EVALUATION CRITERIA FOR WHITE PAPERS. White papers will be evaluated in accordance with the 10 criteria stated below. Items 1-7 are of equal importance to each other and of greater importance than Items 8-10, which are of equal importance to each other.

1. Overall technical merits;
2. Technical innovation and feasibility;
3. Risk management to successfully demonstrate the technologies;
4. Potential to enhance the emerging cargo strike-up/strike-down systems;
5. Potential for transition to the operating forces;
6. Suitability for shipboard use in a marine environment;
7. Team qualifications including past performance;
8. Understanding of the problem;
9. Technical approach; and
10. Cost Realism

INSTRUCTIONS FOR PREPARING FULL TECHNICAL AND COST PROPOSALS.

Technical proposals shall consist of a cover page and two sections -- Technical and Management. The total length of technical proposals should not exceed one hundred (100) typed pages, excluding the cover page. Any additional information over the page count limitation will be discarded. The page limitation for the technical proposal includes the technical and management sections. Some fold out material on larger paper size may be used if required for sketches, illustrations, or graphics with a typeface of 12-point font. A page is defined as 8 1/2 X 11-inch paper, single sided, double-spaced, with one-inch margins, and a typeface of 12-point font.

Cover Page: The cover page shall be clearly labeled "Technical Proposal" and contain the BAA number and title; the title of the proposed effort; the name(s) of the proposing organization(s); and names of the administrative and technical points of contact, along with their telephone numbers, FAX numbers, and electronic mail addresses. The cover page is not included in the page count.

Technical Section: The Technical section is limited to 70 pages. This section shall include a Statement of Work (SOW) that addresses the Offeror's approach to develop and ability to execute the future Detailed Project Plan, which will be the first deliverable under the resulting contract. The SOW shall also discuss deliverables, the Exit Criteria applicable to the Year-End Review, and the criteria for any prior major milestones. Fallback technologies include alternative technologies and tradeoffs that can be used to reduce risk. The contents of the deliverable Detailed Project Plan are discussed in a paragraph below. Deliverables shall be described and, at a minimum, the deliverables are to include the Detailed Project Plan and the final report that describes all analyses, tests, and assumptions and discusses how the technologies meet the requirements

Management Section: The Management section is limited to 30 pages, including resumes. This section shall include a description of relevant corporate/team experience, past performance on similar efforts, key resumes, available facilities, and other relevant information. A detailed discussion shall be provided on program control procedures, risk mitigation, schedule adherence, documentation control, teaming arrangements (if any) and [the Offeror's] configuration control [process to document and manage evolving hardware and software configuration of critical parts and subassemblies] and a plan of actions and milestones.

Cost Proposal: The cost proposal does not have a page limitation. This section shall include cost-by-cost elements and show labor categories, labor rates, labor hours associated with each category, and applicable indirect rates. The cost proposal shall also include the applicable DCAA and DCM Branch Offices and back-up documentation to support proposed costs such as equipment, materials, and other direct cost items. Any offeror, whose direct and indirect rates cannot be verified by DCAA, will be required to provide supporting documentation such as payroll stubs, letters of intent, letters of commitment, and detailed information regarding the calculation of the indirect rates. Subcontractor's proposals shall also contain the detailed cost information described in this paragraph. In those instances where Government activities (laboratories) are members of a teaming arrangement, break out the Government activities' cost separately. Government activities will receive funding of their cost directly from ONR. All options and assumptions should be clearly defined and identified. Offerors are required to provide an original, signed copy of the Representations, Certifications and Other Statements of Offerors (R&D Contracts) that can be downloaded at <http://www.onr.navy.mil/scripts/02/howtosubmit.asp>. If applicable, Offerors are to include a Subcontracting Plan in accordance with the information stated in the paragraph entitled "Subcontracting Plans" in the BAA.

DETAILED PROJECT PLAN: Within thirty days after contract award, each selected Contractor will submit a Detailed Project Plan. This Plan shall include a Work Breakdown Structure (WBS) in Microsoft Project that provides a clear description of the work to be performed under the research effort. The Plan shall be in sufficient detail to identify a traceable monthly event to permit objective assessment of progress [ie, quantifiable metrics and/or demonstrations and events] and allow an earned value type analysis. The plan shall address Exit Criteria applicable to the Year-End Review and the criteria for any prior major milestones. Exit Criteria are a complete listing of performance parameters and conditions of measurement. Risk Management shall be addressed in the Plan. Risk reductions plans shall be addressed and Fallback technologies for higher risk areas discussed. Fallback technologies may require modifications to the Exit Criteria.

EVALUATION CRITERIA FOR TECHNICAL PROPOSALS AND ORAL PRESENTATIONS.

Technical proposals and any related oral presentations will be evaluated in accordance with the six criteria stated below. Items 1-4 are of equal importance to each other and of greater importance than Items 5-6, which are of equal importance to each other.

1. Offerors' capability evidenced by past performance and related team experience and techniques and unique combinations thereof that are integral factors for achieving the work specified in this Broad Agency Announcement (BAA) including the approach to the deliverable Detailed Project Plan;
2. Qualifications, experience, and capabilities of the proposed principal investigator, project manager, and other key personnel;
3. Budgetary cost;
4. Overall technical Merit and problem understanding, including transition ability;
5. Cost Realism; and
6. Commitment to Small Business.

The commitment to small business applies only to proposed contract awards over \$500,000.00. The criteria for evaluation of the offeror's commitment to small businesses will include (i) the extent to which the Congressionally mandated goals are specifically identified in the proposal; (ii) the extent of commitment to use small business concerns for meaningful work; (iii) the complexity and variety of the work the small business firms are to perform; (iv) the realism of the plan; (v) the extent of participation of small business firms in terms of both percentage and dollar value of the total acquisition; and (vi) the offeror's past performance in utilization of small business concerns during contract performance.

DOWN SELECT CRITERIA FOR OPTION EXERCISE: The evaluation criteria for the FY03 down select leading to demonstration will include:

- (1) the evaluation criteria for the technical proposals and oral presentations stated above;
- (2) the results of planned feasibility and performance testing;
- (3) early operational assessments; and
- (4) transition potential.

It is anticipated that there will be multiple awards made for the base performance period. At least one later down select per technology interest area is anticipated.